

## DELPHION

RESEARCH

PRODUCTS

INSIDE DELPHION

Log Out Work Files Saved Searches

My Account

Search Quick Number Login Advanced Download Help

## The Delphion Integrated View: INPADOC Record

Buy Now: ☒ Edit ☐ File History ☐ Other ChangesTools: Add to Work File: 

Add

View: Jump to:  Go to: ☒ Export this as a figure

Title: TW0496814B: PADLESS SUBSTRATE CARRIER

Country: TW Taiwan

Kind: B Patent

Inventor: SOMMER, PHILLIP R.; United States of America  
BUTTERFIELD, PAUL D.; United States of AmericaAssignee: OBSIDIAN INC. United States of America  
[News, Profiles, Stocks and More about this company](#)

Published / Filed: 2002-08-01 / 2000-04-13

Application Number: TW2000089103430

IPC Code: Advanced: [B24B 37/04](#); [B24B 41/04](#); [H01L 21/306](#);Core: [B24B 41/00](#); [H01L 21/02](#); more...IPC-7: [B24B 7/24](#); [B24B 37/04](#); [H01L 21/304](#);High  
Resolution

ECLA Code: None

Priority Number: 1999-02-25 [US1999000258042](#)

Abstract:

Apparatus and method of polishing substrates using a carrier that does not contact the backside of the substrate during polishing. The apparatus preferably forms an air bearing between the substrate and the carrier plate during polishing. Alternatively, liquids, or combinations of liquids and gases may be used to form the bearing layer. When a water layer is formed, at least a portion of the carrier plate is formed as a microporous force applicator. The apparatuses are also. Capable of adjusting the force profile that is applied to the substrate so as to differentially polish different areas of the substrate. A containment ring is provided for horizontal containment of the substrate during polishing and to define an area within which the substrate processes during polishing. A containment ring or barrier is also provided for processing with a substrate during polishing.






INPADOC  
Legal Status:

| Gazette date | Code      | Description (remarks)                                       | List all possible codes for TW |
|--------------|-----------|---|--------------------------------|
| 2002-11-25   | GD4A<br>+ | Issue of patent certificate for granted invention<br>patent |                                |

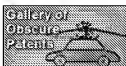
Buy Now: [Family Legal Status Report](#)Designated  
Country:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

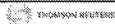
## Family:

| Buy PDF   | Publication                    | Pub. Date  | Filed      | Title                       |
|---|--------------------------------|------------|------------|-----------------------------|
|   | <a href="#">US6645050</a>      | 2003-11-11 | 2000-11-20 | Multimode substrate carrier |
|   | <a href="#">US6276998B1</a>    | 2001-08-21 |            |                             |
|  | <a href="#">US6276998</a>      | 2001-08-21 | 1999-02-25 | Padless substrate carrier   |
|  | <a href="#">TW0496814B</a>     | 2002-08-01 | 2000-04-13 | PADLESS SUBSTRATE CARRIER   |
|  | <a href="#">JP2000296457A2</a> | 2000-10-24 | 2000-02-25 | PAD-LESS SUBSTRATE CARRIER  |
|  | <a href="#">EP1046464A1</a>    | 2000-10-25 | 2000-02-24 | Substrate carrier           |

6 family members shown above

Other Abstract  
Info:[DERABS G2001-093564](#)

Nominate this for the Gallery...



Copyright © 1997-2008 Thomson Reuters  
[Subscriptions](#) | [Web Seminars](#) | [Privacy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact Us](#) | [Help](#)